

OU2-ALLUVIUM

WOODWARD-CLYDE FEDERAL SERVICES OU2 DAILY WELL INSTALLATION FORMS CHECK-OFF SHEET

MW / BH # 05391
(circle one)

DATE 9-24-91

<u>FORM #</u>		COMPL. BY	CHECK BY
FO.8A	Verification of organic vapors	<u>REL</u>	<u>MRM</u>
FO.8B	Record of drilling fluids and cuttings	<u>REL</u>	<u>MRM</u>
FO.16A	Results of radiological measurements	<u>N/A</u> 9 Total	<u>MRM</u>
FO.10A	Drum field log form	<u>REL</u> 9 Total	<u>MRM</u>
FO.10C	Contaminant characterization form	<u>REL</u>	<u>MRM</u>
FO.14B	RFEDS sample collection form 1 / 2 (circle one)	<u>N/A</u>	<u>MRM</u>
GT.2A	Hollow stem auger (FAR)	<u>JPDB</u>	<u>MRM</u>

DRILLING SUMMARY

Coring / Reaming / Well installation (circle one)

Footage drilled: _____

Drill time: _____

Down time: _____ Explanation: _____

ADMIN RECORD

A-OU02-000188

FORN FORB

- ## 2. Check Historical Contaminant Classifications

3 Prework/Background Organic Vapor Monitoring Results

Instrument Used

4 Verification Measurements

Background check _____

First verification measurement _____

Background check _____

Second verification measurement _____

- 5 If either of the verification measurements are above the preceding background measurement the initial measurement has been verified.

Individual completing this form Robert E. LATHAN Robert E. Lathan 9-27-91 ERCE
 Print Name Signature Date subcontractor

Tech Check
MRM 11-26-9

RECORD OF DRILLING FLUIDS AND CUTTINGS

Date of Activities 9-24-91 Field Team Leader JP O'Brien

1. Personnel Assigned to task that generated the environmental materials

Name	Assignment	Employer
<u>Darrel Connors</u>	Driller	<u>GEC</u>
<u>Bert Hasey</u>	Driller's Helper	<u>GEC</u>
<u>JP O'Brien</u>	Geologist	<u>ERCE</u>
<u>RE. LATH</u>	Health and Safety Tech	<u>ERCE</u>
	Other - Specify	

2. Identification of site task was accomplished at: 05391

3. Contaminant classes assumed to be present (check as appropriate)

☐ low-level RAD substances ☐ RCRA regulated substances ☒ Uncontaminated Area
☐ high-level RAD substances ☐ Mixed substances

4. Unanticipated contaminant classes found.

☒ No ☐ Yes (check as appropriate)

☐ low-level RAD substances ☐ RCRA regulated substances
☐ high-level RAD substances ☐ Mixed substances

5. Highest environment monitoring results.

Organic vapors: 0 (value) ppm (units)instrument used 580BRadioisotopes: 0 (value) cpm (units)instrument used Lucas 12-1A

Completed by

Print Name

Subcontractor

Signature

Date

Tech Check
MRM 11-26-91

OU2-ALLUVIUM

HOLLOW STEM AUGER DRILLING
FIELD ACTIVITIES REPORT

PROJECT NUMBER

4006

DATE

9-24-91

PROJECT NAME

OUT Phase II Alluvial Drilling

BOREHOLE IDENTIFICATION

05391

WEATHER CONDITIONS

Clear & cool

RIG TYPE

Mobil B-57

DRILLING COMPANY/DRILLER

Ground Exploration / David Connor

GEOLOGIST/ENGINEER

J.P. O'Brien

CREW MEMBERS

Bob Lath, Bert LeeHosay

WATER LEVEL/TIME

33.6' 0819

TOTAL DEPTH

48.

DECONTAMINATION

N/A

WASTE TYPES, VOLUMES

AND DRUMS USED

Soil cuttings (ream) 0'-15', Drum
0308

DIAMETER OF BORING

9 1/4" MRM 11-26-91
9 1/4" 10 in

TYPE AND SIZE OF AUGERS

AND BIT

Hollow stem 6 1/4" (I.D.) carbide

SAMPLING TYPES, DEPTHS

NONE

HAMMER SIZE

N/A

DEPTH TO BEDROCK

341 ft

END-OF-DAY STATUS

CHRONOLOGICAL RECORD

OF ACTIVITIES

REAM complete to 48.0' Auger in
Hole w/ Borecut on

@ 0930 pull 3 1/4" (I.D.) Sample Auger

String out @ 0945 Begin Reaming w/
6 1/4" (I.D.) @ ~7.0 ~1000 ft ream

Bit in ream, ream to 48.0' By 1515

Gravel zones bind outside of Auger - Slow

COMMENTS

Going @ 1525 while churning Hole rig runs out of fuel, A problem
Because it is fuel injected & will require lines to be added

CONTAMINANT CHARACTERIZATION FORM
FOR GRAY DRUMS PENDING CHARACTERIZATION

ATTACH CHEMICAL RESULTS OF ASSOCIATED SAMPLES

THIS PORTION WILL BE COMPLETED BY SUBCONTRACTOR

Name of the Subcontractor Issued the Drum

Woodward Clyde

The serialized Drum ID number with the

Subcontractor's ID

0289 WC

The Date the Drum Was Taken to a Field Activity

9-20-91

The Location of the Field Activity Area

02 (Site 05391)

The Contents of the Drum

Soil (Drill Cuttings)

(Subsurface Intervals, if Soils)

14.0 - 28.0 ft

(Bag #s, if PPE)

The Date the Drum was Filled

9-20-91

The Associated Well, Boring, or Sample location

05391

Matrix of Sample Analyzed

Soil

Sample ID #s

BH00082WC02

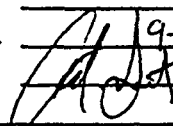
Intervals Sample was Taken From

272-269 ft

Date Submitted to EG&G for Characterization

9-24-91

Subcontractor's Representative Signature



THIS PORTION WILL BE COMPLETED BY EG&G

The Contaminant Characterization of the Drum's Contents

Signature of EG&G Representative Determining the

Contaminant Characterization and Date Signed

Date

EG&G Holding Facility Where Drum Will be Stored

Date and Time Form Returned to Waste Operations

Date _____ Time _____

002-ALL-000

DEPARTMENT OF ENERGY ROCKY FLATS PLANT

DRUM FIELD LOG FORM

FORM FO 10A

NAME OF THE SUBCONTRACTOR
DRUM ID NUMBER WITH SUBCONTRACTOR'S ID

WOODWARD/CIVIC
#296 WJC

LOCATION AND DATE OF ISSUANCE
NAME AND LOCATION OF FIELD ACTIVITY
ASSOCIATED WELL, BORING, OR SAMPLING

LOC 901 Contractors Area
NAME DU 2

DATE 9/20/91
LOC Sds 05391 N.E. Trench

LOCATION
CONTENTS OF DRUM
SUBSURFACE INTERVALS (IF SOILS)
BAG #S (IF PPE)

NAME 05391
Sds (Drum Cuttings)
0.0 - 16.0 FT

ASSOCIATED SAMPLE ID #S

BH 000 820202

DATE DRUM WAS FILLED

9-20-91

SIGNATURE OF PERSON FILLING THE DRUM

Bert Lee Plosser III

IF SOLID ENVIRONMENTAL MATERIALS
LOCATION OF TEMPORARY STORAGE AREA
DATE DRUM RETURNED TO EG&G
SIGNATURE OF EG&G REPRESENTATIVE

Sds 05391

IF ENVIRONMENTAL LIQUIDS
DATE AND LOCATION WHERE CONTENTS WERE
EMPTIED AND DECONNED
(EXAMPLE 2/18/91 DECON PAD #)

DATE

LOC

1-2-20-91

002-ALLIUM**CONTAMINANT CHARACTERIZATION FORM
FOR GRAY DRUMS PENDING CHARACTERIZATION****ATTACH CHEMICAL RESULTS OF ASSOCIATED SAMPLES****THIS PORTION WILL BE COMPLETED BY SUBCONTRACTOR**

Name of the Subcontractor Issued the Drum

Woodward Clyde

The serialized Drum ID number with the

Subcontractor's ID

0296 WC

The Date the Drum Was Taken to a Field Activity

9-20-91

The Location of the Field Activity Area

002 (Site #5391)

The Contents of the Drum

Soil (drum cuttings)

(Subsurface Intervals, if Soils)

0-116 Ft

(Bag #s, if PPE)

The Date the Drum was Filled

9-20-91

The Associated Well, Boring, or Sample location

05391

Matrix of Sample Analyzed

Soil

Sample ID #s

BH00082 WCU2

Intervals Sample was Taken From

269-272 ft

Date Submitted to EG&G for Characterization

9-24-91

Subcontractor's Representative Signature

[Signature]**THIS PORTION WILL BE COMPLETED BY EG&G**

The Contaminant Characterization of the Drum's Contents

Signature of EG&G Representative Determining the

Contaminant Characterization and Date Signed

Date

EG&G Holding Facility Where Drum Will be Stored

Date and Time Form Returned to Waste Operations

Date Time

DEPARTMENT OF ENERGY ROCKY FLATS PLANT

DRUM FIELD LOG FORM

FORM FO 10A

NAME OF THE SUBCONTRACTOR . . .
DRUM ID NUMBER WITH SUBCONTRACTOR'S IDWoodward Clyde
Q299 WJC

LOCATION AND DATE OF ISSUANCE . . .

LOC 901 Contractor's AreaDATE 9-20-91NAME AND LOCATION OF FIELD ACTIVITY . . .
ASSOCIATED WELL, BORING, OR SAMPLINGNAME Q42LOC Q5391 N.E. Trenches

LOCATION . . .

NAME Q5391

CONTENTS OF DRUM . . .

Soil (Dirt Castings)

SUBSURFACE INTERVALS (IF SOILS) . . .

285-40 ft

BAG #S (IF PPE)

ASSOCIATED SAMPLE ID #S . . .

BH Q299 WJC

DATE DRUM WAS FILLED

9-23-91

SIGNATURE OF PERSON FILLING THE DRUM

Bert Lee Hargrett

IF SOLID ENVIRONMENTAL MATERIALS

LOCATION OF TEMPORARY STORAGE AREA

Q5391 Site

DATE DRUM RETURNED TO EG&G

SIGNATURE OF EG&G REPRESENTATIVE . . .

IF ENVIRONMENTAL LIQUIDS

DATE AND LOCATION WHERE CONTENTS WERE
EMPTIED AND DECONNED

(EXAMPLE 2/18/91 DECON PAD #___)

DATE

LOC

16-12-91
15-15-91
14-12-91

OLD APPENDIX
CONTAMINANT CHARACTERIZATION FORM
FOR GRAY DRUMS PENDING CHARACTERIZATION

ATTACH CHEMICAL RESULTS OF ASSOCIATED SAMPLES

THIS PORTION WILL BE COMPLETED BY SUBCONTRACTOR

Name of the Subcontractor Issued the Drum

Woodward Clyde

The serialized Drum ID number with the

Subcontractor's ID

02 0299 WC

The Date the Drum Was Taken to a Field Activity

9-20-91

The Location of the Field Activity Area

042 (Site 05391)

The Contents of the Drum

Soil (drum cuttings)

(Subsurface Intervals, if Soils)

28.0-40. ft

(Bag #s, if PPE)

The Date the Drum was Filled

9-23-91

The Associated Well, Boring, or Sample location

05391

Matrix of Sample Analyzed

Soil

Sample ID #s

BH00085WC12

Intervals Sample was Taken From

36-38'347 - 349

Date Submitted to EG&G for Characterization

9-24-91

Subcontractor's Representative Signature

[Signature]**THIS PORTION WILL BE COMPLETED BY EG&G**

The Contaminant Characterization of the Drum's Contents

Signature of EG&G Representative Determining the

Contaminant Characterization and Date Signed

Date

EG&G Holding Facility Where Drum Will be Stored

Date and Time Form Returned to Waste Operations

Date _____ Time _____

CONTAMINANT CHARACTERIZATION FORM FOR GRAY DRUMS PENDING CHARACTERIZATION

ATTACH CHEMICAL RESULTS OF ASSOCIATED SAMPLES

THIS PORTION WILL BE COMPLETED BY SUBCONTRACTOR

Name of the Subcontractor Issued the Drum

Woodward Clyde

The serialized Drum ID number with the

Subcontractor's ID

6308 WC

The Date the Drum Was Taken to a Field Activity

9-20-91

The Location of the Field Activity Area

042 Cste d5391

The Contents of the Drum

Soil (Drum Cymbals)

(Subsurface Intervals, if Soils)

40-48 7 c

(Bag #s, if PPE)

0-20ft Peaming

The Date the Drum was Filled

9-24-9

The Associated Well, Boring, or Sample location

2539/

Matrix of Sample Analyzed

1. Sei

Sample ID #s

BH00085WCUZ

Intervals Sample was Taken From

~~361-381~~ REC
347-349

Date Submitted to EG&G for Characterization

9-24-91

Subcontractor's Representative Signature

Let's

THIS PORTION WILL BE COMPLETED BY EG&G

The Contaminant Characterization of the Drum's Contents

Signature of EG&G Representative Determining the

Contaminant Characterization and Date Signed

Date

EG&G Holding Facility Where Drum Will be Stored

Date and Time Form Returned to Waste Operations

Date_____Time_____

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